

PHENIX WEEKLY PLANNING



10/20/2011

Don Lynch

This Week

- RPC1 North Installation completed, QA testing continues
- RPC1 survey
- Continue installing MuTr station 2 & 3 North work platforms in MMN
- Design for MMS station 2/3 work platforms
- Continue assembly & QA of RPC1S octants at RPC factory
- VTX repairs/upgrades/reassembly continues
- FVTX assembly continues, move west FVTX to Chemistry
- Design BP protection for south station 1 and Inside BBC North
- Install BBC North
- Continue design and procurement for RPC3 shielding, Hodoscope, AH Crane upgrade & repairs, and R134A shed

Next Week

- RPC1 North QA testing continues
- RPC1 survey, beampipe survey
- Continue installing MuTr station 2 & 3 North work platforms in MMN
- Design for MMS station 2/3 work platforms
- Continue assembly & QA of RPC1S octants at RPC factory
- VTX repairs/upgrades/reassembly continues
- FVTX assembly continues
- FVTX rack assembly continues
- Begin FVTX/VTX Integration
- Install BBC North
- MPC North troubleshooting
- Continue design and procurement for RPC3 shielding, Hodoscope, AH Crane upgrade & repairs, and R134A shed

TECHNICAL SUPPORT 2011

- Remaining Work Permits needed: End of Shutdown WP 11/1
- South BP protection Design Done
- Reinstall BBC North 10/24
- MPC N troubleshooting 10/31
- CM alignment stops 11/14
- Reinstall BBC South 11/14
- MPC S troubleshooting 11/21
- Upgrade AH crane 10/15-11/30
- DC/PC1 East/West troubleshooting as required 10/3-11/15
- Undefined detector subsystem maintenance and repairs 7/25-11/7
- RPC3 Shielding 11/21
- RPC Hodoscope 11/21
- Prep for EC roll in, reinstall MMS lampshade 11/28-12/2
- Roll in EC 12/5
- Prep IR for run 12/5-12/9
- VTX, FVTX and RPC1 Services and QA tests 9/16-11/30
(including 4 new racks)
- BP Survey 10/17-12/12
- EC prep & roll-in, IR run prep, Pink/Blue/White sheets 12/5-12/23
- New and upgraded full detector commissioning 9/15-12/31
- Run 12 cooldown 1/1/2012

- VTX pixel/strip pixel repairs 10/28
- VTX re-assembly 11/2
- VTX QA tests 11/4
- VTX (w/o FVTX) survey 11/4
- FVTX procurement & Assembly 10/28
- FVTX QA tests 10/28
- VTX+FVTX final installation to start 11/7
- Final VTX+FVTX Integration & Survey in Chem Lab 11/11
- VTX+FVTX move to 1008 11/14

- VTX/FVTX Installation at 1008
 - Build 2 FVTX racks 7/1-11/4
 - Install VTX/FTX, Re-connect VTX services, 11/14-11/23
Install FVTX services, survey and QA tests
 - VTX/FVTX Commissioning & Contingency 11/23-12/31
 - Chiller leak/contamination improvements 11/23

VTX Status

- Stripixel:

- Reconnecting grounds on east side (today)
- Waiting for Pixel barrels to be installed, then need to re-test
- FEM testing at ORNL done, ship to BNL next week.

- Pixels

- Additional work on plugging west side leaks complete
- Re-bonding ladder at Instrumentation (in progress)
- Reassemble west pixel barrels today install into strips by Monday (waiting final modifications to west side enclosure).
- Remount SPIRO Boards will start today, install Big Wheels Monday
- Waiting on ladder from Japan (shipping delays). Will reassemble east half optimizing placement of good ladders

MuTr North Station 1 work

- Clean/install new parts and upgrades (MuTr (3 weeks, At RPC Factory) Done
- Re-install chambers and FEE plates (1 week) Done
- Re-install north section of bridge Done
- Re-cable, re-hose and test (3 weeks) in progress
- Move CM north 11/2

MuTr Station 2 N (from sta 1 side) terminators and Dry air header mod

- Station 2 Maintenance/upgrade through access opened by station 1 removal Done

MuTr North & South Station 2 & 3 Re-cap clamps

(No internal work platforms to upper octants)

- Install new capacitor clamps and terminators in lower octants (In Progress)
7/25-12/31
- Re-install MMS east vertical lampshade 11/28

RPC Tasks

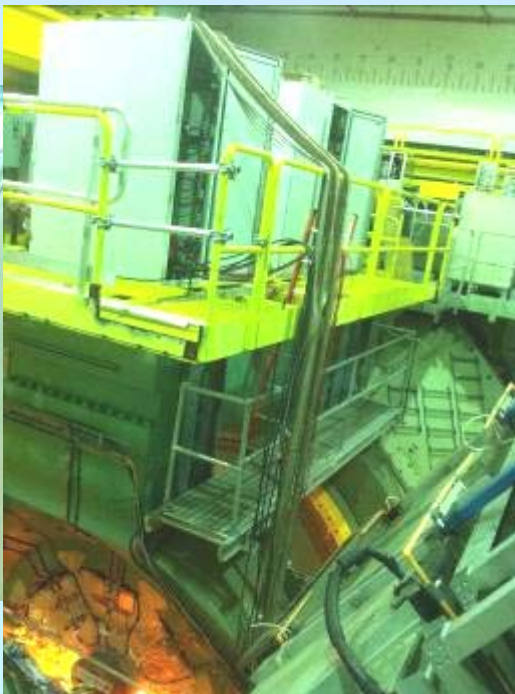
- Assembly at QA tests at RPC Factory 10/31
- Build 1 new rack, upgrade existing RPC1 prototype rack Done
- Install north RPC1 (including both racks & services) Done
- HV Tests, gas system calibration 9/23-11/2
- Move Station 1 work platforms to south station 1 11/4
- Install south RPC1 11/7-11/23
- Remove all scaffolding and hanging platforms 12/5
- RPC1 north and south commissioning 9/6-12/5
- RPC3 HV Distribution modifications, gas distribution modifications, PS calibration HV and services testing 7/1-12/5

TECHNICAL SUPPORT ZONE

- RPC1
 - HV Cables *Installation in progress*
 - Signal cables *Installation in progress*
 - LV cables *Installation in progress*
 - Racks
 - Assembly *Done*
 - Install on bridge *Done*
- RPC3 additional HV boxes *Ready for installation*
- FVTX
 - Bias cables *pigtails are Here; extensions due next week*
 - LV cables *Wedge cables are here, dist to mapper due next week ROC LV Cables to be terminated in-house*
 - Fiber *Control & trunk fibers and patch bays ready*
 - Mapper boards *ready to install*
 - CMT3 and CMT4 FVTX racks
 - Assembly *10/31*
 - Install on bridge *11/4*
- VTX Modify thermocouple connections *Design & procurement done, programming needed, ready for installation*
- PC Board Designs
 - PbSc terminator board production *here*
 - New LV Dist front panels *here*
 - GL1 6X1 Multiplexer assemblies *design finished, quotes are in*
 - New MPC junction board *prototype in layout phase*
 - Dual SVX board for E. Kistenev *next in line*
- West carriage ADAM system performance upgrade *2 new Modbus servers under test in 1008*
- LeCroy HV control retrofit testing *Still Waiting for doc. from Debrecen Inst*

Miscellaneous Gas & Cooling System Tasks

- Redo bypass line on VTX/FVTX spare chiller to remove kink 7/1-12/31
- Move RPC R134A tanks nearer to GMH, install cover, insulated lines 7/1-12/31
- Replace MuTr flowmeters (north and south) 7/1-12/33
north done
- RPC $\frac{1}{4}$ " copper line from RPC rack to CM 7/1-12/31

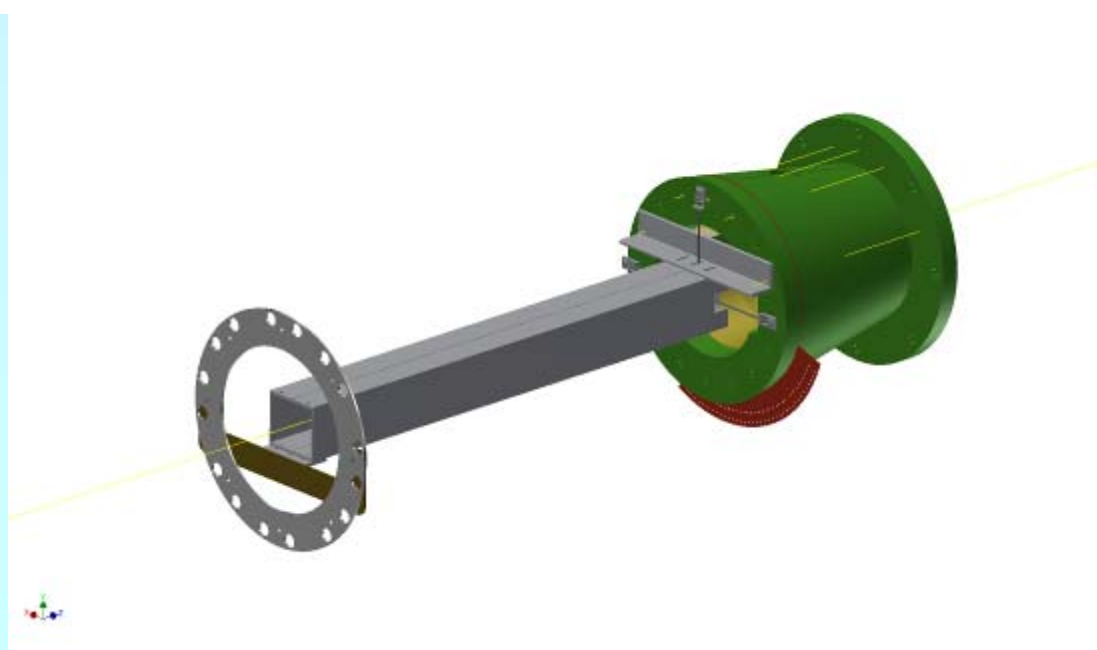
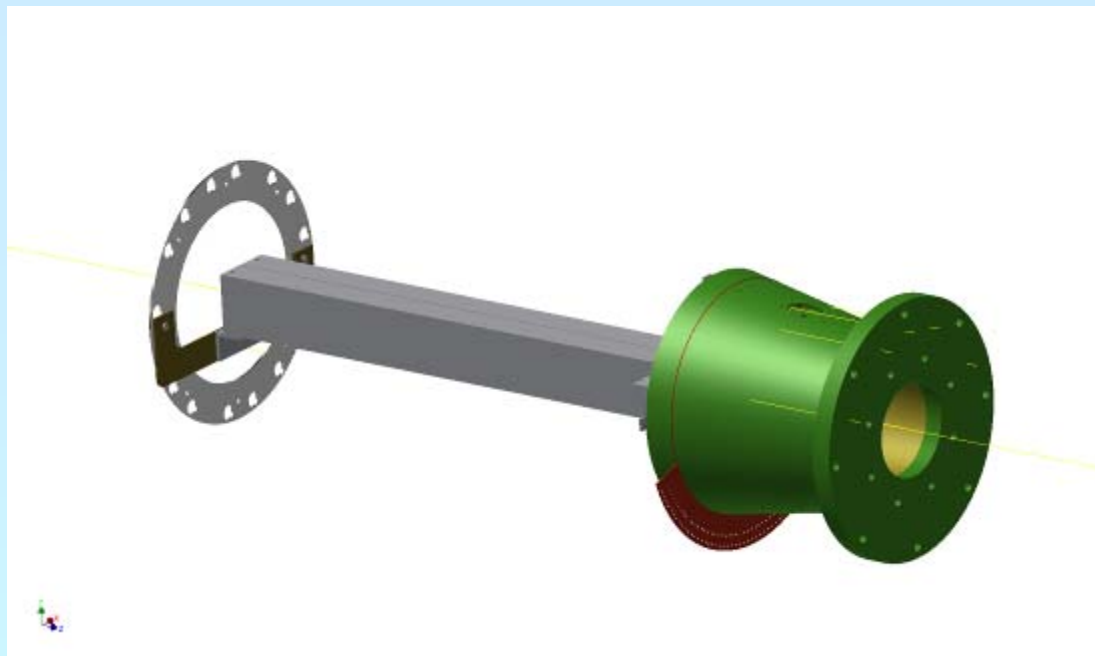


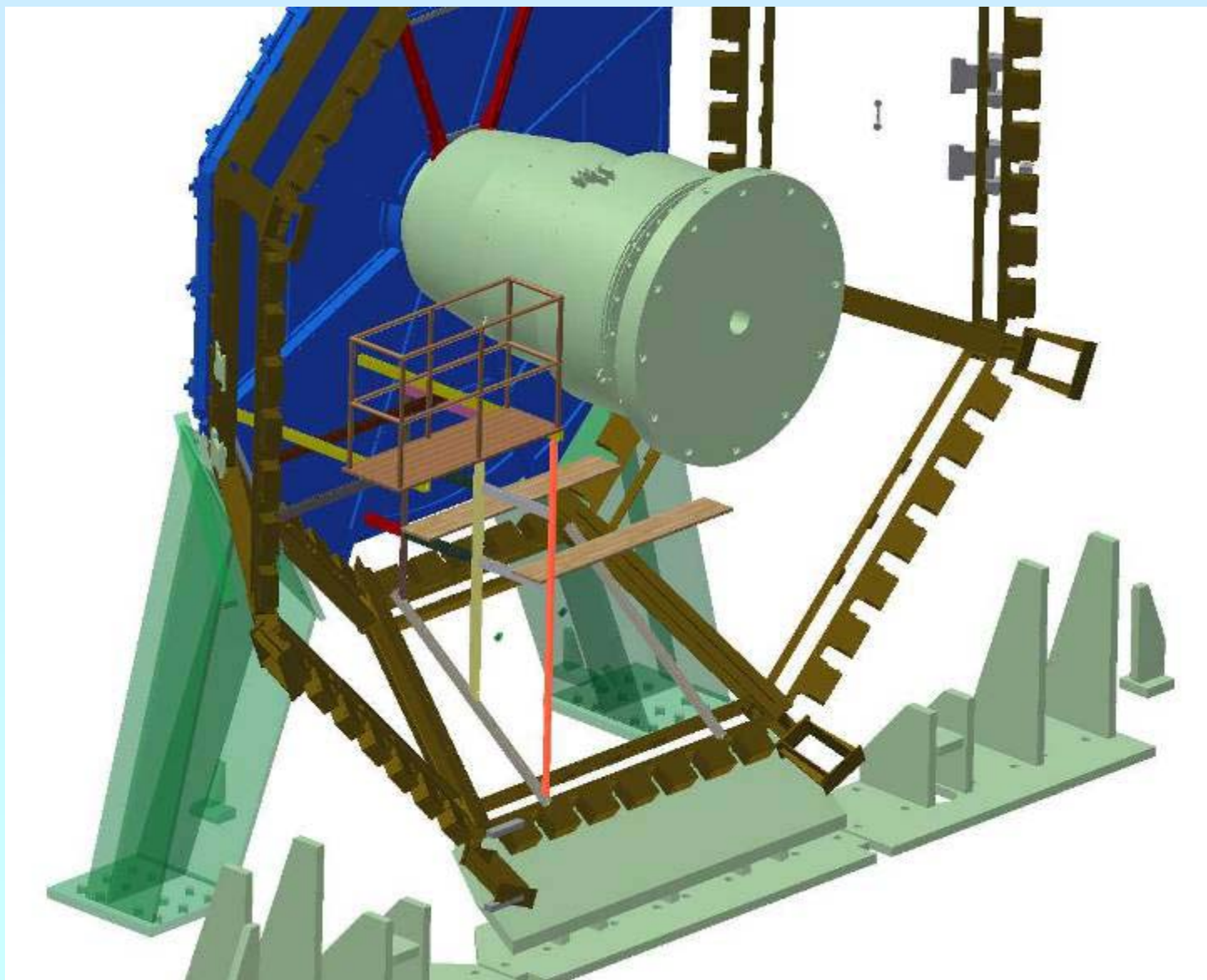
RPC1N



10/20/2011

South Beampipe Cover

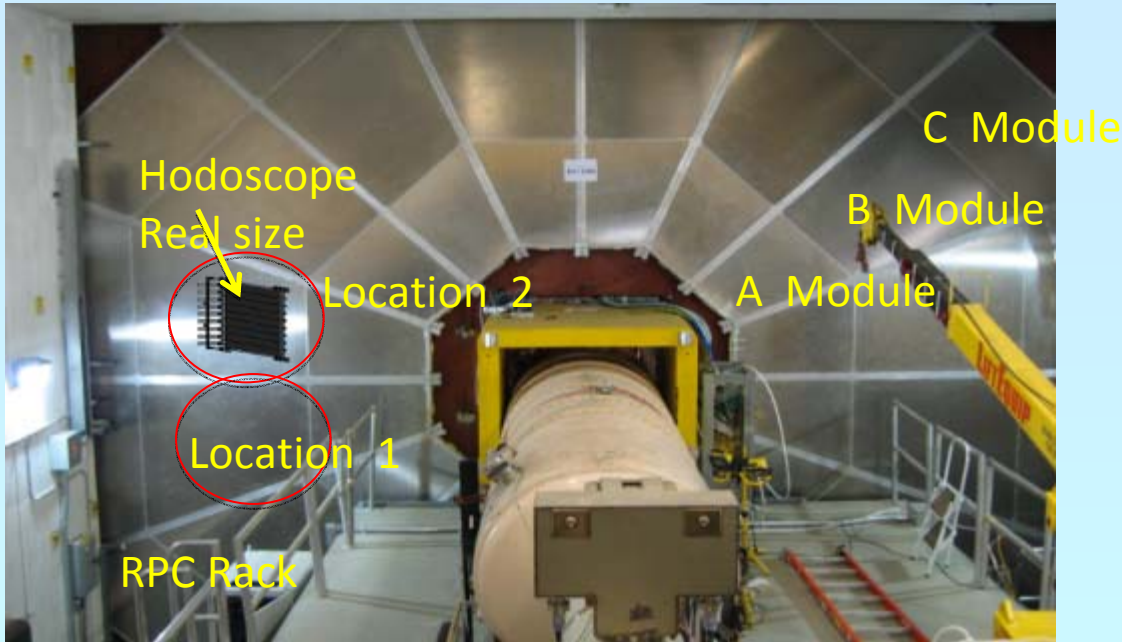




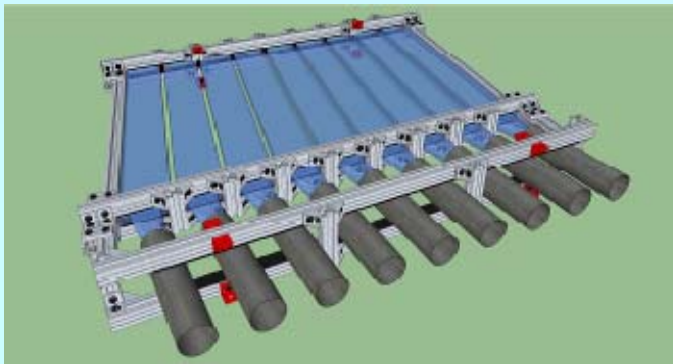
Station 2/3
Access

RPC Hodoscope

TECHNICAL SUPPORT

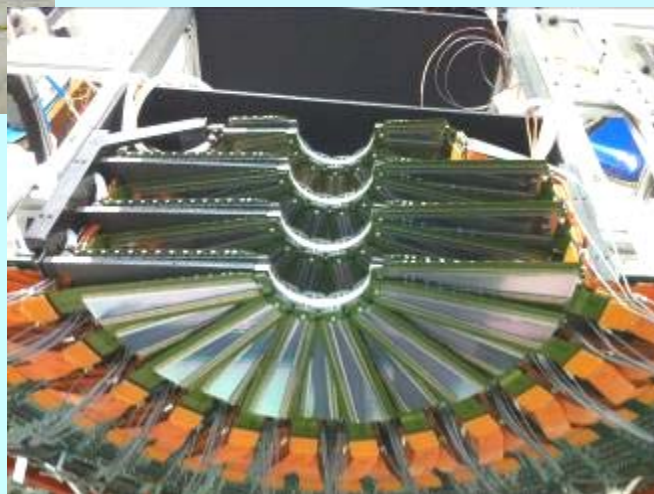
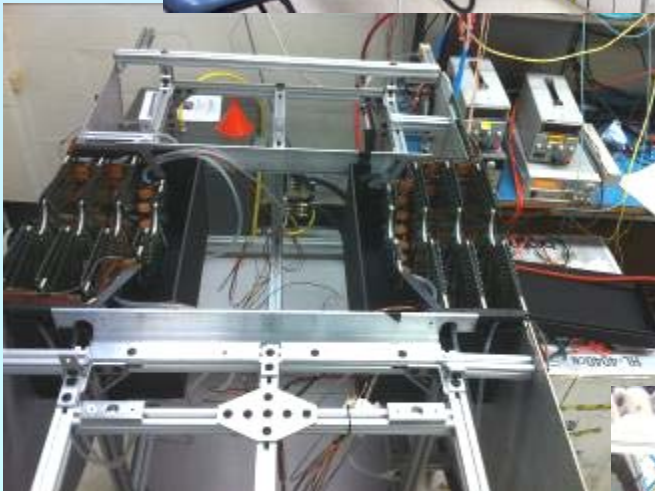


Need location coordinates and orientation with respect to IP, and referenced to hodoscope geometry



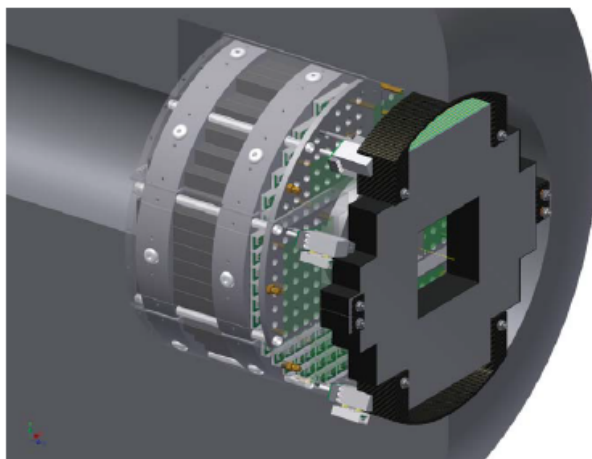


FVTX



A Proposal for the Muon Piston Calorimeter Extension (MPC-EX) to the PHENIX Experiment at RHIC

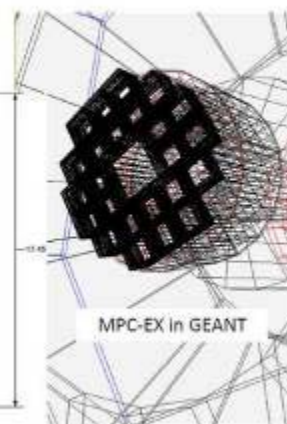
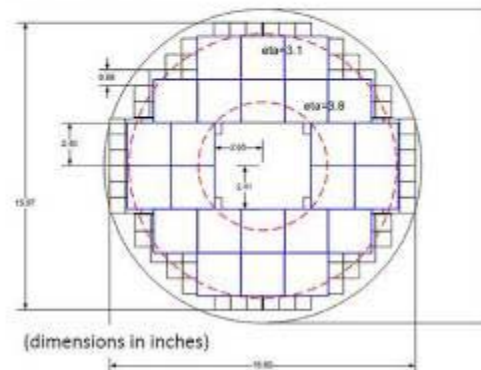
Brookhaven National Laboratory
Relativistic Heavy Ion Collider
October, 2011

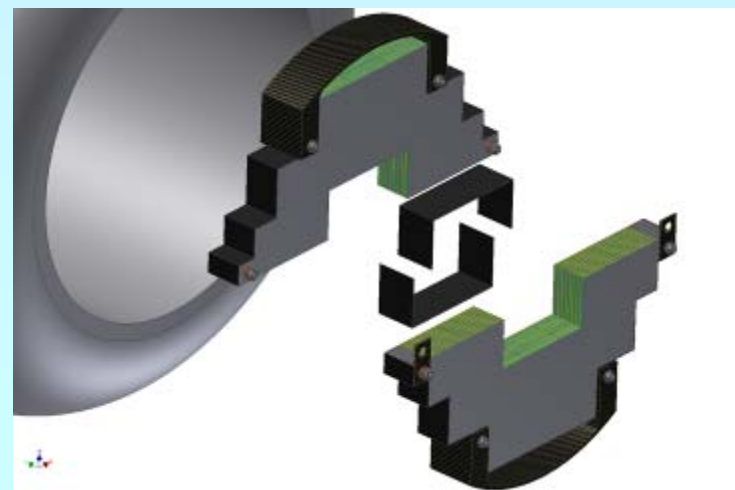
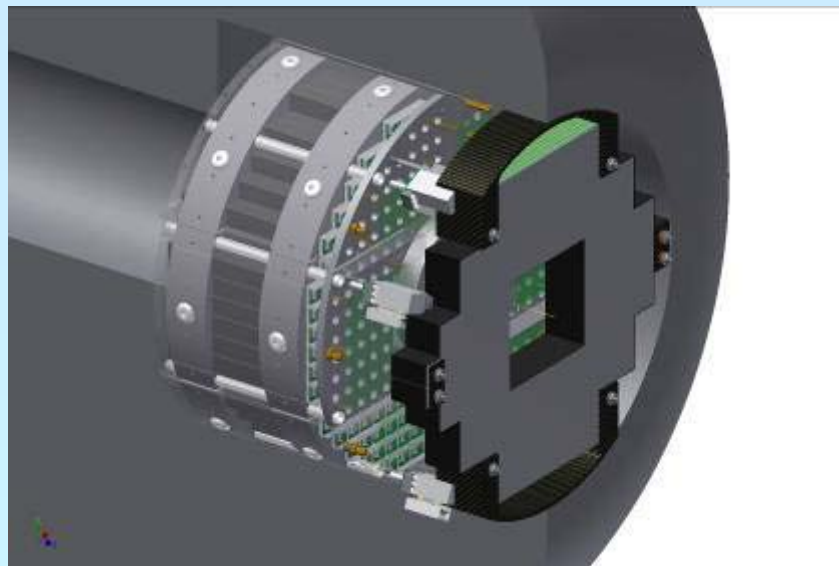


MPC-EX

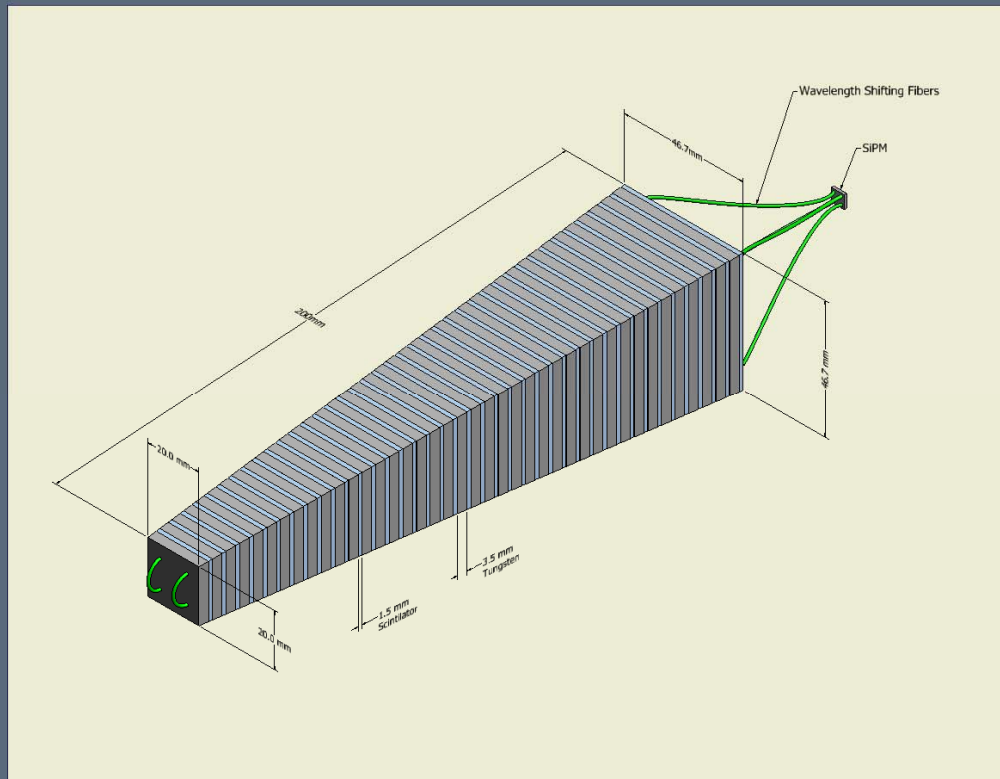
Design of the MPC-EX

Detector is designed around 6.2cm x 6.2cm modules (Si pad or strip detectors) separated by 2mm tungsten plates.





Shashlik Calorimeter



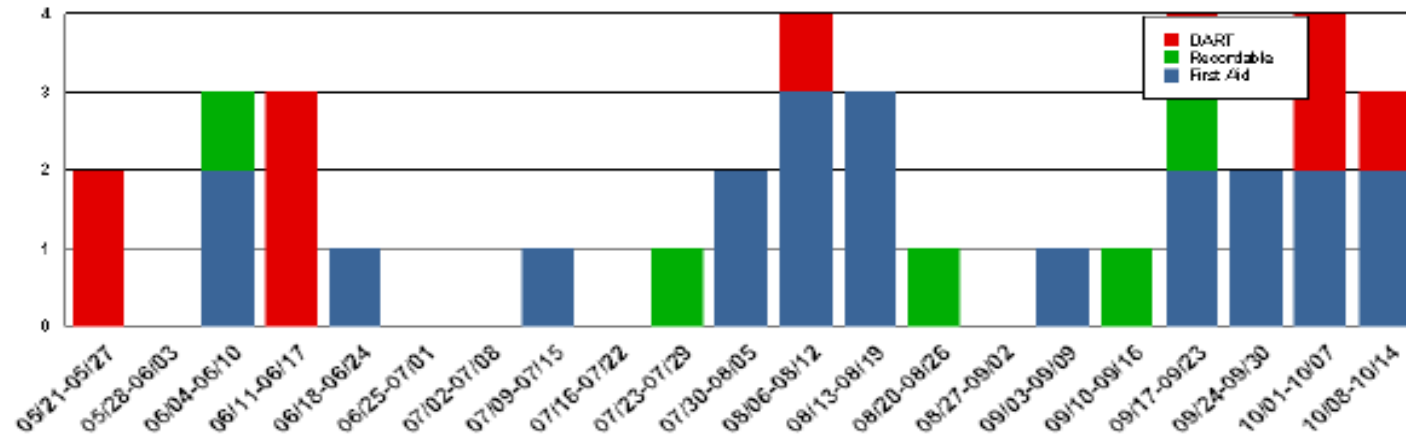
Infrastructure Issues

TECHNICAL SUPPORT NO. 1

- Roof leaks in utility bathroom at northwest corner behind tech offices, over door between rack room and assembly hall, over door between control room and elect. ass'y room, southeast corner of IR and laser room.
- Flooding in AH/ Driveway heaving
- Electronics test/assembly room-to-parking lot door (does not open/close/lock properly - needs to be replaced)
- Temperature in utility hall (where new air compressor is installed) is exceedingly high (transformer cases as high as 135 F)



Injuries Per Week As of 10/14/11



Injury Status:

FY12: DART – 3, TRC – 3, First Aid – 4

FY11 YTD: DART – 27, TRC – 43, First Aid – 43

Recent Injuries

10/12/11	First Aid	An employee lacerated the back of a hand while cutting material with a razor blade. First aid was at the Clinic.
10/11/11	DOE Recordable DART	An employee fell while descending staircase. This is a DART case due to lost time.
10/10/11	First Aid	An employee reported back pain from handling garbage. First aid was given at the Clinic.
10/07/11	DOE Recordable DART	A subcontractor was carrying a piece of rebar and lost his footing. As he fell forward, he extended his arm down to prevent the fall. The arm came in contact with a shear wall deadhead which caused a cut to his upper left forearm. He transported himself to Stony Brook Hospital ER and received sutures and a tetanus shot. He was released to return to work.

Recent Events

10/12/11

Non-reportable

While performing leak tests of sources on the BNL site as part of the rolling radiological stand-down, a Sr-90 foil source in a Physics lab was found to have detectable activity that was less than the total contamination limits of 10CFR Appendix D. The source is contained in a metal 2x2 inch cube which is inside a plastic box inside a radiologically posted hood. This is a fixed experiment that does not leave the hood.

All personal are reminded that the roads by the back of B912 and the road between B912 and B922 are One-Way as posted on the signs. Staff who work in these areas are complaining that many vehicles go the wrong way and they are concerned that an accident will eventually occur. Please pay strict attention to the One-Way signs.



Where To Find PHENIX Engineering Info

Happy National Brandied Fruit Day !!



Links for the weekly planning meeting slides, archives of past meeting slides, long term planning, pictures, videos and other technical info can be found on the PHENIX Engineering web site:

http://www.phenix.bnl.gov/WWW/INTEGRATION/ME&Integration/DRL_SSint-page.htm

